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## Additional Notes on Iowa Mosses

Betty Blagg

*Iowa State College*

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## ADDITIONAL NOTES ON IOWA MOSSES

BETTY BLAGG

During the year 1928-29, I have done no concentrated work on the Iowa mosses. A few interesting specimens have been picked up, however, in the little time that it was possible to devote to the work. Collections have been started in the vicinity of Ames, a part of the state in which almost no collecting has been reported. The Ledges State Park at Boone promises interesting possibilities, since the geological formations are quite different from those of the rest of the state. *Rhodobryum roseum* (Weis.) Limpr. was found fruiting. Dr. A. J. Grout <sup>1</sup> says of this species, "Although common, in fruits infrequently either in America or England but reproduces freely by its stolons."

An ecological study of the Iowa mosses presents most interesting possibilities. There are often great mats of green on banks along roadsides, and the question has arisen whether there are many different species or just one or two. In January, 1928, collections were hurriedly made in front of a farmhouse on the north facing bank along the main highway east of Grinnell. *Ceratodon purpureus* (L.) Brid., *Funaria hygrometrica* (L.) Sibth., and *Mnium cuspidatum* (L.) Leyss, were recognized on sight and the rest sent to Mr. Kaiser for determination. He reported ten additional species, five (marked \*) of which are new to the writer's collection and of these two (marked \*\*) are new to Iowa. Work on the Iowa mosses has not been exhausted! The following is a list of the species found in this roadside collection:

*Ceratodon purpureus* (L.) Brid.

*Funaria hygrometrica* (L.) Sibth.

*Mnium cuspidatum* (L.) Leyss.

\*\**Brachythecium salebrosum* (Hoffm.) Br. & Sch.

*Brachythecium oxycladon* (Brid.) J. & S.

*Brachythecium acutum* (Mitt.) Silliv.

\**Brachythecium campestre* B. & S.

\**Brachythecium plumosum* (Sw.) B. & S.

*Brachythecium acuminatum* (Hedw.). Kindb.

\*\**Brachythecium cyrtophyllum* Kindb.

<sup>1</sup> Grout, A. J. Mosses with hand lens and microscope. Published by the author. Brooklyn, New York, 1903. P. 226.

- \**Eurynchium strigosum* (Hoffm.) B. & S.
- Eurynchium serrulatum* (Hewd.) Kindb.
- Entodon seductrix* (Hedw.) C. M.

The primary purpose of this paper, however, is to add the 1928-29 collections to the lists already published<sup>2 3</sup> in order to continue the effort to secure a comprehensive list of Iowa mosses. Dr. H. S. Conard of Grinnell college has kindly given permission to include the new to Iowa mosses which have been added to the Grinnell flora list during this period. This list, then, shows additions to the Grinnell collections, and to the Blagg collection. Duplicates of the latter have been placed in the herbarium at Iowa Wesleyan college, Mt. Pleasant, since the work on Iowa mosses was started there. Nine species not hitherto reported for the state are being added to the list bringing the total number of reported species to 145. For the purpose of uniformity, the same scheme of initials used in the previous papers is here used.

Grateful acknowledgment is due Mr. Edwin B. Bartram, Bushkill, Pike Co., Pa., and to Mr. George B. Kaiser, 6620 Germantown ave., Pelham, Philadelphia, Pa., for many of the determinations and verification of doubtful species.

1928-29 additions to the list of Iowa mosses:

#### FISSIDENTACEAE

- Fissidens incurvus* Schwaegr.....C.
- Four miles north of Oskaloosa, Mahaska Co.; Aug. 25, 1928, on ground.
- Fissidens osmundoides* (Schwtz.) Hedw.....B.
- North woods, Ames, July 31, 1928; on ground.

#### ORTHOTRICHACEAE

- Orthotricum sordidum* S. & L.....C.
- Four miles north of Oskaloosa, Mahaska Co.; Aug. 25, 1928; on bark.

#### BRYACEAE

- Pohlia nutans* (Schreb.) Lindb.....S.\* W.\* B.
- Bryum pendulum* (Hornsch) Schimp.....B.
- Fayette, July, 1924; on rock.
- Bryum capillare* L.....W.\* B
- Mnium rostratum* Schrad.....B.
- Deep woods near Salem; May 15, 1927; on ground.
- North woods, Ames; June 27, 1928; on ground.
- The Ledges State Park, Boone, July 17, 1928; on ground.
- Mnium spinulosum* B. & S.....B.
- Gunder's woods, Ames; May 12, 1928; on ground.

#### LESKEACEAE

- Leskea polycarpa* Ehrh.....S.\* W.\* B.
- Leskea gracilescens* Hedw.....W.\* B.

<sup>2</sup> Blagg, Betty. A Preliminary list of Iowa Mosses. Proc. Iowa Acad. Sci., Vol. 34. 1927.

<sup>3</sup> Blagg, Betty. Additional notes on Iowa Mosses. Proc. Iowa Acad. Sci., Vol. 35. 1928.

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## HYPNACEAE

- Brachythecium salebrosum* (Hoffm.) B. & S.-----B.  
 East of Grinnell, Jan. 23, 1928; north facing bank along main road.
- Brachythecium oxycladon dentatum* (L. & J.) Grout-----B.  
 The Ledges State park, Boone, July 17, 1928; on ground.
- Bachythecium campestre* B. & S.-----W.\* B.
- Brachythecium plumosum* (Sw.) B. & S.-----S.\* W.\* B.
- Brachythecium cryptophyllum* Kindb.-----B.  
 East of Grinnell, Jan. 23, 1928. North facing bank along main road.
- Eurynchium strigosum* (Hoffm.) B. & S.-----W.\* B.
- Amblystegium brevipes* Pardot & Theriot-----C.  
 West of Grinnell, Oct. 12, 1928, at intake of a roofed concrete water tank.

IOWA STATE COLLEGE,  
 AMES, IOWA.